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| Mr. Michael T. Davis  Pre-Calculus | | 3.4 Logarithms – Expanding and Condensing (1)  February 23, 2016 | |
| Name: | |

1. 

The sum of two logs is the one log of the product of the logarands

1. 

The difference of two logs is the one log of the difference of the logarands

1. 

The log of a base with a power is the product of the power and the log

Use the properties of logarithms to EXPAND the following expressions (do not evaluate):

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Use the properties of logarithms to CONDENSE the following expressions (do not evaluate):

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